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Firestorm Extreme SSD

60GB to 480GB Capacities • 2.5" SATA
550MB/s Read, 515MB/s Write •
256Bit AES Encryption

Utilises Sandforce SF-2200 Controller

Maximised Performance

The Firestorm Extreme SSD combines enterprise class performance and reliability with low power operation to make the ideal mobile drive. The high read and write performance of the Firestorm Extreme SSD will satisfy the most demanding gamer and power user. While the low power mode extends laptop battery life.

Enterprise Class Standards

Providing an industry-leading bandwidth of more than 550MB/sec transfers, the Firestorm Extreme can approach the limits of the SATA 6Gb/s interface on large transfers. Performance reaches enterprise class standards with up to 60,000 IOPS.

Reduced Power Requirements

- No moving parts
- Super-low operating and standby power needs
- Power requirements notably reduced over a typical HD

Fast Performance

- Virtually zero spin or seek times
- Zero rotational latency
- Sustained high-speed data transfers

Reliable

- No volatile memory elements
- Improved resistance to shock & vibration
- Predictable and manageable failure modes reduce IT costs

Improved Operation

- Noise and vibration free
- Virtually no heat emissions
- Lighter than conventional storage

Performance & Power Optimisation

SSDs are capable of significantly outperforming traditional HDDs, but typical controllers haven't delivered the compelling value necessary for mainstream adoption. Th Firestorm Extreme SSD range uses the SandForce SF-2200 controller which enables the SSD to maximise both the endurance and performance for the life of the drive; fulfilling the promise of high speed flash memory in client computing applications and improving system performance by up to 50% (as measured by SYSmark Benchmark).

Data Protection & Reliability

Firestorm Extreme SSD has built in AES-256 bit encryption controllable by a configurable user password. This feature prevents would be thieves from extracting data directly from the flash memory should they ever have access to the drive. The Hypertec Firestorm SSD processor provides up to 100x greater data protection than today's SSDs, and leading enterprise HHDs; this is a result of superior ECC protection and unique RAISE (Redundant Array of Independant Silicon Elements) technology. RAISE provides the protection and reliability of RAID on a single drive without the significant write overhead.

DuraClass Technology

DuraWrite extends the endurance of SSDs • Intelligent Block Management & Wear levelling • Intelligent Read Management • Intelligent 'Recycling' for advanced free space management • RAISE (Redundant Array of Independant Silicon Elements) • Best-in-class protection and drive life

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Firestorm Extreme SSD

Technical Specification

Features

- 9.5mm thick 2.5" SATA
- Lifetime performance - will not degrade over time
- TRIM support (O/S support required)
- Windows (32-bit & 64-bit). Linux, and Mac OSX
- Ultra efficient Block Management and Wear Levelling
- Best-in-class ECC protection for longest data retention and drive life
- RAISE (Redundant Array of independant Silicon Elements)
- Intelligent "Recycling" for advanced free space management (Garbage Collection)
- Intelligent Block Management & Wear Leveling
- 256Bit AES encryption

Host Interface

- SATA 6Gb/s, 3Gb/S and 1.5Gb/s support
- Native Command Queuing: 32
- SMART attribute List: Extended

Capacity

- 60GB to 480GB
- 2.5" SATA

Performance

- Sequential Read up to 550MB/s
- Sequential Write up to 515MB/s
- Random Read IOPS @ 4k blocks: up to 60K
- Random Write IOPS @ 4k blocks: up to 60K

Security

- 256Bit AES data encryption
- User selectable password
- Secure erase (Factory Reset - ATA)

Flash Memory Support

- MLC
- Number of Flash Buses: 8

Physical

- 2.5" / 9.5m standard form factor
- Weight <80gm

Power Consumption

- Typical (mW)<5W
- Sleep/Slumber: 200mW

Environmental

- Operating Temperature 0C to 70C

2.5" SATA Part Numbers

60GB - SSD2060SF2200SA3

120GB - SSD2120SF2200SA3

240GB - SSD2240SF2200SA3

480GB - SSD2480SF2200SA3

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